

# BioBlue

## HIGHLIGHTS

- WF 10x/18mm eyepiece(s)
- BioBlue EVO models with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination
- Models with an integrated 5.0 MP CMOS camera
- Models with a 7" LCD screen or tablet
- Models for polarization applications
- Back panel with smart storage solutions
- Reversed nosepiece for 4 semi plan objectives
- Color-coded height adjustable Abbe condenser
- Quick focus aid
- Dual illumination system: white & halogen colored 1 W LED illumination
- Cordless operation with rechargeable AA batteries
- Universal USB-C 5 Vdc charging port
- Multiplug 100-240 Vac / 5 Vdc adapter
- Provided with APL (Antimicrobial Protection Layer)
- Warranty 10 years



BlueLine  
GET THE QUALITY



● BB.4260

## TECHNICAL SPECIFICATIONS

### EYEPIECE(S)

- WF 10x/18 mm Wide field
- Polarization models are supplied with one extra WF 10x/18 mm eyepiece with crosshairs and micrometer
- Secured and with pointer for monocular models
- The BioBlue EVO models are supplied with WF 10x/20 mm eyepieces

### HEAD

- All heads are 360° rotatable and secured
- Monocular models with 45° inclined tubes
- Binocular and trinocular models have 30° inclined tubes, interpupillary distance is adjustable between 48 and 75 mm and equipped with a ± 5 diopter adjustment on the left tube
- The trinocular head has a fixed light path beamsplitter (50:50) and generates an erect image
- Models with digital head are supplied with a integrated 5.0MP 1/2.8" CMOS sensor with 2560 x 1920 pixel resolution USB 2.0 camera
- Models supplied with a 7" IPS LCD screen
- Models supplied with a 12" tablet
- Optional discussion head available

### MONOCULAR MODEL BB.4200

320 (h) x 176 (w) x 227 mm (d) | 3.0 kg

### BINOCULAR MODEL BB.4260

360 (h) x 176 (w) x 227 mm (d) | 4.0 kg

### POLARIZATION MODEL BB.4200-P-DLED

360 (h) x 176 (w) x 227 mm (d) | 4.4 kg

### NOSEPIECE

Reversed quadruple nosepiece on ball bearings. Models for polarization are supplied with a swing-out analyzer

### OBJECTIVES - 45 MM PARFOCAL

- Supplied with semi plan 4x/0.10, 10x/0.25, S40x/0.65, S60x/0.85, S100x/1.25 oil immersion objectives configuration is depending on model
- The S40x, S60x and S100x oil immersion objectives are spring loaded (to prevent damage to sample and objectives)

All optics are anti-fungus treated and anti-reflection coated for maximum light throughput



Monocular head



Binocular head



Trinocular head



Discussion head



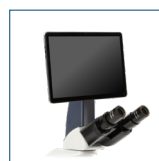
Digital mono head



Digital bino head



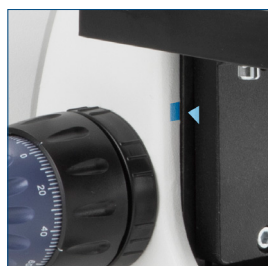
Digital LCD head



Digital tablet head

### FOCUSING

- Coaxial coarse and fine adjustments with 200 graduations. Precision 2 µm per graduation, 0.4 mm per rotation
- Total travel approximately 23 mm
- Supplied with an adjustable rack stop to prevent damage to sample and objectives
- The coarse adjustment is equipped with friction control
- The BioBlue is equipped with a quick focus aid



• Quick focus aid

### ANTI-THEFT SLOT

At the back of the microscope a Kensington Security Slot is placed, which can be used to secure the instrument from theft

### PACKAGE CONTENT

- Supplied with 100-240 Vac / 5 Vdc USB multi-plug power adapter, three rechargeable type AA batteries, dust cover, a spare fuse, white filter, user manual and 5 ml immersion oil for models with S100x oil objective
- Polarization models are supplied with a cross hair eyepiece for centering
- All packed in a polystyrene box

### STAGE

- 130 x 130 mm with mechanical 70 x 28 mm X-Y translation stage except for models BB.4200 and BB.4205
- These models have a 120 x 120 mm plain stage supplied with two non-removable object clamps
- The models for polarization are supplied with 129 mm round stage, 360° rotatable and two object clamps

### POLARIZATION MODELS

- Supplied with one extra WF 10x/18 mm eyepiece with crosshairs and micrometer
- Equipped with analyzer, mounted in a slider under the head
- 360° Rotatable, graduated polarizer on the lamp house
- Standard supplied with D-LED illumination for correct color rendering (very similar to the halogen light spectrum) and an integrated 100-240 Vac power supply
- Polarisation attachments for standard microscopes are available optionally

### CONDENSER

Height adjustable color-coded Abbe condenser N.A. 1.25 with iris diaphragm and filter holder

### DUAL ILLUMINATION SYSTEM

- 1 W white (Neo)LED: 6000 – 6500 K, ideal for standard observations with crisp, cool lighting
- 1 W halogen colored (Neo)LED: 3000 – 3200 K, enhances contrast for specific applications such as transparent objects

**The polarization models** are also supplied with the double LED illumination for correct color rendering (very similar to the halogen light spectrum)

**The EVO models** are equipped with Köhler NeoLED™ illumination

### NEOLED™ ILLUMINATION

Binocular and trinocular models are supplied with an adjustable NeoLED™ illumination system for increased light output



### APL (ANTIMICROBIAL PROTECTION LAYER)

Using the same technology already used extensively throughout the healthcare environment in wall coatings, patient lighting, air pressure stabilization and suction liners, APL prevents the growth of unwanted microbes that can cause degradation, discoloration, staining or odors of the Euromex microscopes



• Polarization model BB.4260-P-DLED

### BACK PANEL – ORGANIZED & EFFICIENT

The BioBlue features a revolutionary back panel with smart storage solutions:

1. 5-slide specimen holder
2. Dual tool holders
3. Built-in power supply storage
4. Storage for immersion oil
5. Dual illumination switch
6. Integrated cable roll-up system
7. USB-C power input



MODELS	Mono	Bino	Trino	4/10/40x SMP objectives	S60x SMP objective	S100x SMP objective	Mechanical X-Y stage	1 W Dual color LED	1 W Dual color NeoLED™	Köhler illumination <sup>(1)</sup>	Polarization <sup>(2)</sup>
BB.4200	•			•				•			
BB.4220	•			•			•	•			
BB.4240	•			•	•		•	•			
BB.4250	•			•			•	•			
BB.4260		•		•			•		•		
BB.4260-E		•		•			•		•	•	
BB.4263		•		•	•		•		•		
BB.4243			•	•	•		•		•		
BB.4253			•	•			•		•		
BB.4253-E			•	•			•		•	•	
BB.4220-P-DLED	•			•				•			•
BB.4240-P-DLED	•			•	•			•			•
BB.4250-P-DLED	•			•				•			•
BB.4261-P-DLED		•		•					•		•
BB.4263-P-DLED		•		•	•				•		•
BB.4260-P-DLED		•		•					•		•
BB.4241-P-DLED			•	•					•		•
BB.4243-P-DLED			•	•	•				•		•
BB.4253-P-DLED			•	•					•		•

<sup>(1)</sup> EVO models are supplied with WF 10x/20 mm eyepieces and Köhler NeoLED™ illumination

<sup>(2)</sup> Polarization models are supplied with DLED illumination - very similar light spectrum to the halogen illumination - and an eyepiece with crosshairs for centering

### DIGITAL MODELS

MODELS	Mono	Bino	7" LCD*	12" Tablet	4/10/40x SMP objectives	Semi plan S60x objective	Semi plan S100x oil objective	Integrated X-Y stage	1 W Dual color LED	1 W Dual color NeoLED™
BB.4205	•				•				•	
BB.4225	•				•			•	•	
BB.4245	•				•	•		•	•	
BB.4255	•				•		•	•	•	
BB.4267		•			•		•	•	•	•
BB.4269		•			•			•	•	•
BB.4200-LCD			•		•				•	
BB.4220-LCD			•		•			•	•	
BB.4267-T		•		•	•		•	•	•	•
BB.4269-T		•		•	•	•		•	•	•

\* LCD versions do not run on batteries

## DIGITAL MODELS

### CAMERA

- All the BioBlue digital microscopes are equipped with a 5.0 MP 1/2.8" CMOS USB-2 camera
- Maximum resolution 2560 x 1920, 24 bits color depth, upto 30 frames per second\*
- Supplied with ImageFocus Plus software, USB-2 cable and a micrometer 1mm/100 slide
- Warranty for the camera is 2 years

### SOFTWARE

- The ImageFocus Plus software allows to save images in .jpg, .tif, .bmp or .dicom formats as well as .avi format videos
- Images can be annotated and measurements can be performed in live or captured images
- Compatible with Windows 10 and higher, both 32 and 64 bits configurations
- MacOS version is also available
- Updates can be downloaded on our website [www.euromex.com](http://www.euromex.com)

### MODELS WITH LCD SCREEN

- 7" IPS LCD screen
- Screen resolution 1920 x 1080 @ 30 fps\*
- Image resolution upto 1844 x 1080 in JPEG format
- Video resolution 1280 x 720 AVI format
- The screen allows live viewing and saving images and videos directly to micro SD card
- Basic measurement function (line) with calibration. Calibration slide available as option
- The LCD screen can only be operated as a stand alone and cannot function cordlessly
- Warranty for the screen is two years

\* Frame rates were determined at optimal conditions

### MODELS WITH TABLET AND 5 MP CAMERA

- The 5.0 MP CMOS camera ensures excellent color reproduction
- It is connected to a Windows tablet PC with vivid color graphic display for enabling visualisation of microscopic samples
- Operates with ImageFocus Plus image analysis software
- A 2-in-1 solution, as it can be disconnected and used as a real Windows tablet
- Responsive and smooth control, due to its large Windows based touch screen of 12"

### SPECIFICATIONS

Software and camera as above (5 MP + ImageFocus Plus)

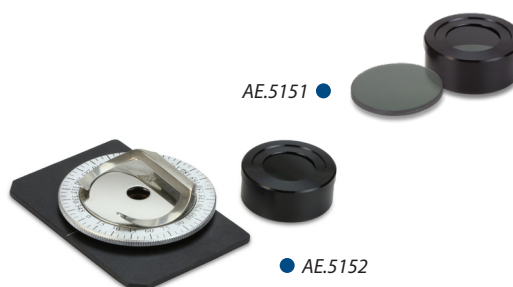
<b>Processor</b>	Quad Core max 3.3 GHz HD graphics processor
<b>Screen</b>	12 inch IPS 2160*1440 / 3:2
<b>Memory</b>	12 GB
<b>Storage</b>	512 GB Flash HDD, micro SD/SDHC slot for cards up to 64 GB
<b>Webcam</b>	2 MP front and 5MP rear camera
<b>Connectivity</b>	Micro USB 2.0, Micro HDMI, USB-C, WiFi 6 and Bluetooth 4.0
<b>Audio</b>	Stereo with 3.5 mm audio jack, internal microphone and speaker
<b>Battery</b>	Lithium, 38Wh, 5000mA
<b>Weight</b>	0.8 KG (tablet) 4.8 kg (complete)
<b>System</b>	Windows 11
<b>Software</b>	ImageFocus Plus



## ACCESSORIES AND SPARE PARTS

### EYEPIECES

- AE.5571** Wide field eyepiece WF 5x/18 mm
- AE.5572** Wide field eyepiece WF10x/18 mm
- AE.5572-E** Wide field eyepiece WF 10x/20 mm for BB EVO
- AE.5573** Wide field eyepiece WF15x/12 mm
- AE.5573-E** Wide field eyepiece WF 15x/12 mm for BB EVO
- AE.5574** Wide field micrometer eyepiece 10mm/100
- AE.5581** Wide field eyepiece WF 10x/18 mm with pointer
- AE.5581-E** Wide field eyepiece WF 10x/20 mm with pointer for BB EVO
- AE.5582** Wide field eyepiece WF 20x/11.5 mm
- AE.5582-E** Wide field eyepiece WF 20x/12.5 mm for BB EVO
- AE.5365** Eyecup for 28 mm eyepieces
- AE.5365-E** Pair of eyecups for eyepieces for BB EVO



### OBJECTIVES

#### *Semi Plan SMP, 45 mm parfocal*

- AE.5591** 4x/0.10 SMP objective. WD 37.5 mm
- AE.5593** 10x/0.25 SMP objective. WD 6.5 mm
- AE.5594** 20x/0.40 SMP objective. WD 1.2 mm
- AE.5597** S40x/0.65 SMP objective. WD 0.7 mm
- AE.5599** S60x/0.75 SMP objective. WD 0.2 mm
- AE.5601** S100x/1.25 SMP oil immersion objective. WD 0.2 mm

WD = Working distance



### POLARIZATION ATTACHMENTS

*Not suitable for the BioBlue EVO models*

- AE.5151** Simple polarization attachment. Polarizer mounted over eyepiece and analyzer 32 mm diameter in filter holder
- AE.5152** Simple polarization attachment. Polarizer mounted over eyepiece and analyzer 32 mm diameter in filter holder
- AE.5155** Polarization attachment with analyzer and slider, rotatable stage for X-Y mechanical stage and polarizer on lamp house
- AE.5155-P** Polarization attachment with analyzer and slider, rotatable stage for stage with clamps and polarizer on lamp house
- AE.5156** Polarization attachment with analyzer and slider, and polarizer on lamp house
- AE.5158** Polarization kit with analyzer in slider and small rotatable (75 x 50 mm) stage with two clamps to be mounted on X-Y stage. Rotatable 360° polarization filter to be mounted on lamphouse
- AE.5158-P** Polarization kit with analyzer in slider and small rotatable (100 x 65 mm) stage with two clamps to be mounted on plain stage. 360° Rotatable polarization filter to be mounted on lamphouse



● BioBlue with polarization kit

**MISCELLANEOUS**

- AE.1110** Stage micrometer 1 mm/ 100 parts
  - AE.5511** Discussion head without eyepieces. Delivered with two eyepieces when the head is ordered mounted on microscope
  - AE.5202** Blue filter, diameter 32 mm
  - AE.5203** Yellow filter, diameter 32 mm
  - AE.5204** Neutral grey filter, diameter 32 mm
  - AE.5205** Green filter, diameter 32 mm
  - AE.5207** Blue filter plexiglass, diameter 32 mm
  - BB.4300** Aluminium case for BioBlue microscopes
  - AE.9918** Nylon microscope bag (25 x 39 x 19 cm)
  - AE.9912** Euromex dust cover medium (35 x 39 cm)
  - BB.9602** Analyzer in slider
  - AE.9981-DL** 1 W Dual Color LED replacement unit\*
  - AE.9991-DL** 1 W Dual Color NeoLED™ replacement unit \*
  - AE.9975-DL** External 100-240 Vac (50/60 Hz)/ 5 Vdc USB-C multiplug adapter\*
- \* Not compatible with BioBlue revision 1 models with single color LED's
- AE.5227** Glass fuses 1 A 250 V, 10 pieces



● BB.9602



● PB.5165



● PB.5155



● PB.5245



● PB.5275



● PB.5255

**CAMERA ACCESSORIES**

- AE.5130** Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
  - AE.5025** T2 adapter for Nikon D digital SLR cameras
  - AE.5040** T2 adapter for Canon EOS digital SLR cameras
- Other T2 adapters on request*

**DISPOSABLES**

- PB.5155** Microscope slides 76 x 26 mm, ground edges, 50 pieces
- PB.5157-W** Microscope slides 76 x 26 mm, ground edges. White frosted side, 50 pieces per pack
- PB.5157-B** Microscope slides 76 x 26 mm, ground edges. Blue frosted side, 50 pieces per pack
- PB.5160** Microscope slides 76 x 26 mm with cavity, ground edges. 10 pieces per pack
- PB.5165** Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5168** Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
- PB.5245** Lens cleaning paper, 100 sheets per pack
- PB.5255** Immersion oil, n = 1.515 (25 ml)
- PB.5274** Isopropyl alcohol 99% (200 ml)
- PB.5275** Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs



● AE.9912



● AE.9918



● BB.4300



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